

FIG. 1 1/17

GTGTGCTGGA	GCCACTGTCG	CCGATCTCGC	GCACGCTACT
GCTGCTGCTC	GCCCGTCGTC	CCCCATCGTG	CACTAAGCGG
TCCCAAAAGA	TTCAAAGTCC	AAG <b>ATG</b> GCAG	CCCTCAAGGA
CCAGCTGATT	GTGAATCTTC	TTAAGGAAGA	ACAGGTCCCC
CAGAACAAGA	TTACAGTTGT	TGGGGTTGGT	GCTGTTGGCA
TGGCTTGTGC	CATCAGTATC	TTAATGAAGG	ACTTGGCTGA
TGAGCTTGCC	CTTGTTGATG	TCATAGAAGA	TAAGCTAAAG
GGAGAGATGA	TGGATCTTCA	GCATGGCAGC	CTTTTCCTTA
AGACACCAAA	AATTGTCTCC	AGCAAAGATT	ATAGTGTGAC
TGCAAACTCC	AAGCTGGTCA	TTATCACCGC	GGGGGCCCGT
CAGCAAGAGG	GAGAGAGCCG	GCTCAATTTG	GTCCAGCGAA
ACGTGAACAT	CTTCAAGTTC	ATCATTCCAA	ATGTTGTGAA
ATACAGTCCA	CAGTGCAAAC	TGCTCATCGT	CTCAAACCCA
GTGGATATCT	TGACCTACGT	GGCTTGGAAG	ATCAGCGGCT
TCCCCAAAAA	CAGAGTTATT	GGAAGTGGTT	GCAATCTGGA
TTCGGCTCGG	TTCCGTTACC	TGATGGGAGA	AAGGCTGGGA
GTTCATCCAC	TGAGCTGTCA	CGGGTGGGTC	CTGGGAGAGC
ATGGCGACTC	CAGTGTGCCT	GTGTGGAGTG	GTGTGAACGT
CGCCGGCGTC	TCCCTGAAGT	CTCTGAACCC	GCAGCTGGGC
ACGGATGCAG	ACAAGGAGCA	GTGGAAGGAT	GTGCACAAGC
AGGTGGTTGA	CAGTGCATAC	GAAGTGATCA	AGCTGAAAGG
TTACACATCC	TGGGCCATTG	GCCTCTCCGT	GGCAGACTTG
GCCGAGAGCA	TAATGAAGAA	CCTTAGGCGG	GTGCATCCCA
TTTCCACCAT	GATTAAGGGT	CTCTATGGAA	TCAAGGAGGA
TGTCTTCCTC	AGCGTCCCAT	GTATCCTGGG	ACAAAATGGA
ATCTCAGATG	TTGTGAAGGT	GACACTGACT	CCTGACGAGG
AGGCCCGCCT	GAAGAAGAGT	GCAGATACCC	TCTGGGGAAT
CCAGAAGGAG	CTGCAGTTC <b>T</b>	<b>AA</b> AGTCTTCC	CAGTGTCCTA
GCACTTCACT	GTCCAGGCTG	CAGCAGGGTT	TCTATGGAGA
CCACGCACTT	CTCATCTGAG	CTGTGGTTAG	TCCAGTTGGT
	TGAGGTGGTC		
	CTGCTAAGTG		
	GACAATCCCA		
	CAGGCTTTGA		
ATTGCTGTGC	TACGCACCCT		GCCTAGGCCA
	GTTAGTTATA		AGTGTGTAAG
TCCATCGTGT		CATAAATGTT	
	TATATGTGTC		
TACGTGAAAT	GTAAGATCTG		ATGGAACCAA
CCACTCAAGT	GTCATGCCAA	GGAAAACACC	AAATAAACC'I'
TGAACAGTG	FIG	24	

FIG. 2A 2/17 MAALKDQLIVNLLKEEQVPQNKITVVGVGAVGMACAISILMKDLADEL ALVDVIEDKLKGEMMDLQHGSLFLKTPKIVSSKDYSVTANSKLVIITA GARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPQCKLLIVSNPVDILT YVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWVLGE HGDSSVPVWSGVNVAGVSLKSLNPQLGTDADKEQWKDVHKQVVDSAYE VIKLKGYTSWAIGLSVADLAESIMKNLRRVHPISTMIKGLYGIKEDVF LSVPCILGQNGISDVVKVTLTPDEEARLKKSADTLWGIQKELQF

FIG. 2B

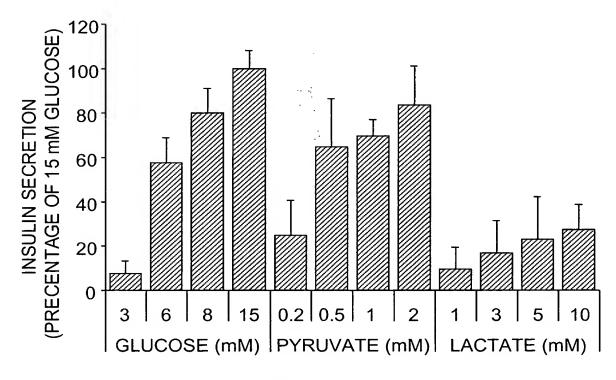
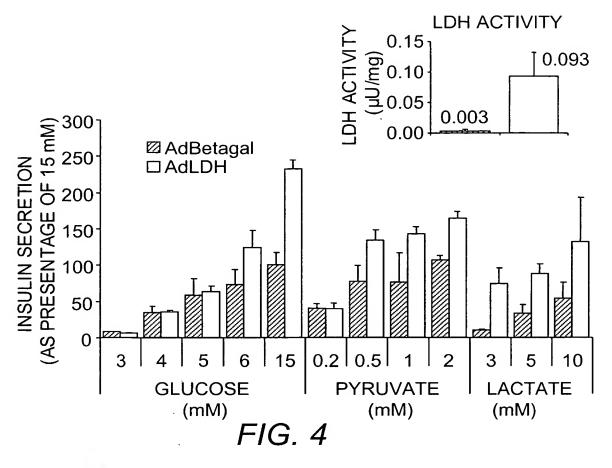


FIG. 3



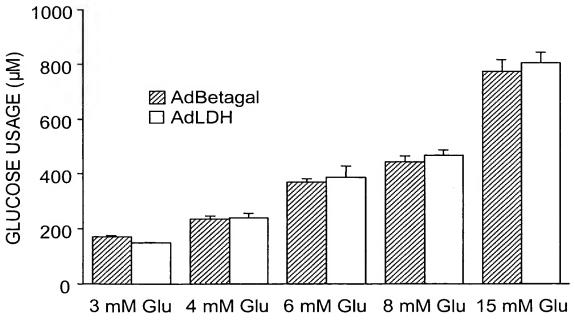
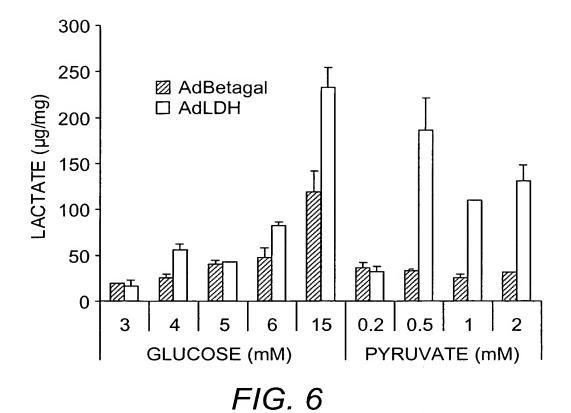
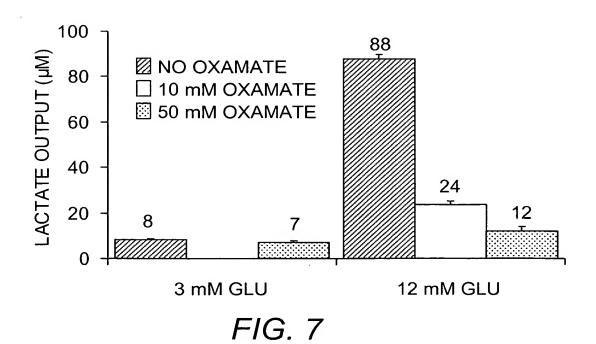


FIG. 5 4/17





5/17

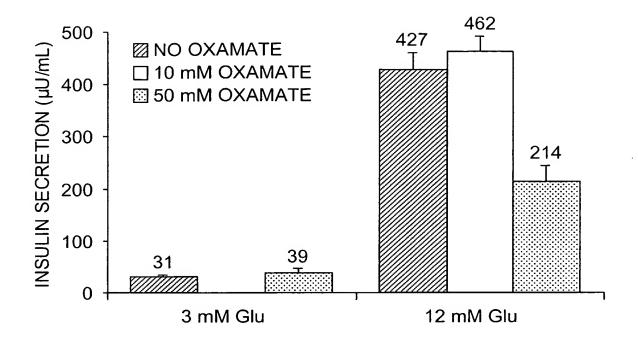
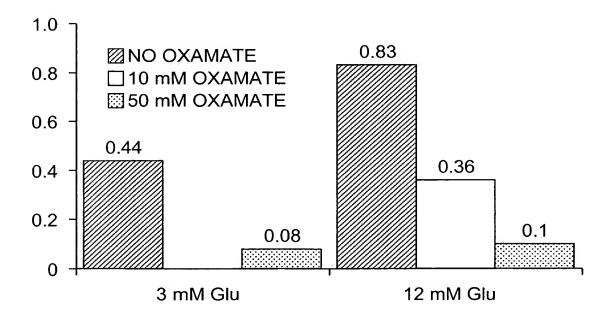


FIG. 7B



*FIG. 7C* 6/17

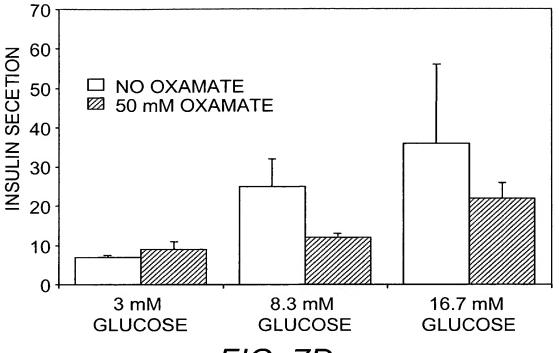


FIG. 7D

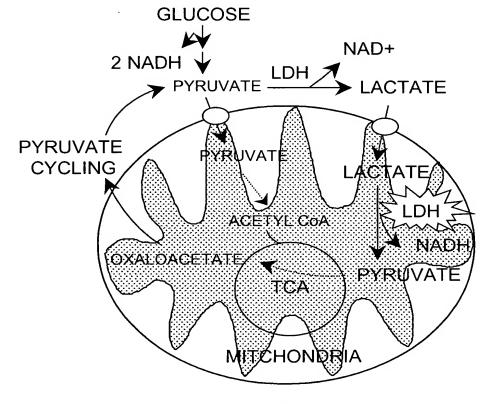
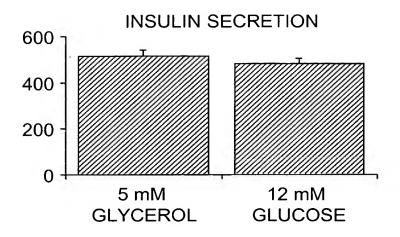
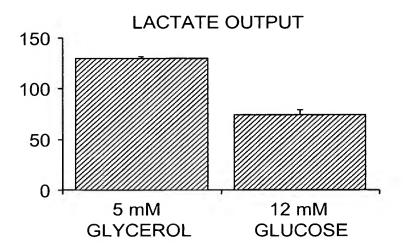
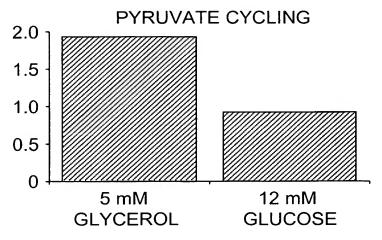


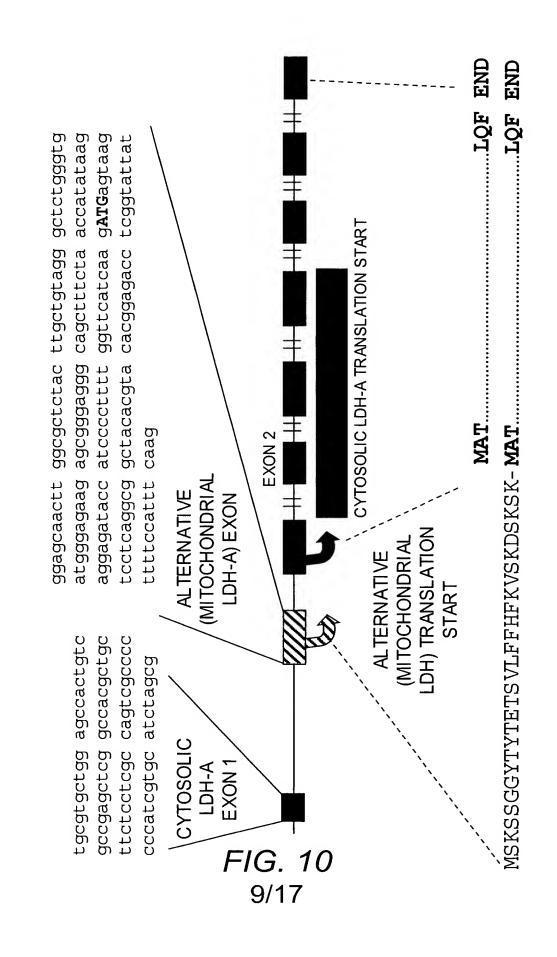
FIG. 8







*FIG.* 9 8/17



- RAT MSKNSGGYTYTETSVLFFHFKVPKDSKSK
- •MOUSE MSKSSGGYTYTETSVLFFHFKVSKDSKSK
- HUMAN MGEPSGGYTYTQTSIFLFHAKIPFGSKSN
- CONS MSK SGGYTYTETSVLFFHFKVPKDSKSK

## FIG. 11

CGCTCTACTT GCTGTAGGAC TCTGGGTGAT GGGAGAAGAG CGGGAGGGCA GTTCTTTAAC CGTGTAAGAG GAGGGACCAT CCCTTTTGGG GTTCATCAAG ATGAGTAAGA ACTCAGGCGG CTACACATAT ACGGAGACCT CAGTATTATT \* \* \* TTTCCATTTC AAGGTCCCAA AAGATTCAAA GTCCAAGATG GCAGCCCTCA \$\$\$ AGGACCAGCT GATTGTGAAT CTTCTTAAGG AAGAACAGGT CCCCCAGAAC AAGATTACAG TTGTTGGGGT TGGTGCTGTT GGCATGGCTT GTGCCATCAG TATCTTAATG AAGGACTTGG CTGATGAGCT TGCCCTTGTT GATGTCATAG AAGATAAGCT AAAGGGAGAG ATGATGGATC TTCAGCATGG CAGCCTTTTC CTTAAGACAC CAAAAATTGT CTCCAGCAAA GATTATAGTG TGACTGCAAA CTCCAAGCTG GTCATTATCA CCGCGGGGGC CCGTCAGCAA GAGGGAGAGA GCCGGCTCAA TTTGGTCCAG CGAAACGTGA ACATCTTCAA GTTCATCATT CCAAATGTTG TGAAATACAG TCCACAGTGC AAACTGCTCA TCGTCTCAAA CCCAGTGGAT ATCTTGACCT ACGTGGCTTG GAAGATCAGC GGCTTCCCCA AAAACAAAGT TATTGGAAGT GGTTGCAATC TGGATTCGGC TCGGTTCCGT TACCTGATGG GAGAAAGGCT GGGAGTTCAT CCACTGAGCT GTCACGGGTG GGTCCTGGGA GAGCATGGCG ACTCCAGTGT GCCTGTGTGG AGTGGTGTGA ACGTCGCCGG CGTCTCCCTG AAGTCTCTGA ACCCGCAGCT GGGCACGGAT GCAGACAAGG AGCAGTGGAA GGATGTGCAC AAGCAGGTGG TTGACAGTGC ATACGAAGTG ATCAAGCTGA AAGGTTACAC ATCCTGGGCC ATTGGCCTCT CCGTGGCAGA CTTGGCCGAG AGCATAATGA AGAACCTTAG GCGGGTGCAT CCCATTTCCA CCATGATTAA GGGTCTCTAT GGGATCAAGG AGGATGTCTT CCTCAGCGTC CCATGTATCC TGGGACAAAA TGGAATCTCA GATGTTGTGA AGGTGACACT GACTCCTGAC GAGGAGGCCC GCCTGAAGAA GAGTGCAGAT ACCCTCTGGG GAATCCAGAA GGAGCTGCAG TTCTAAAGTC TTCCCAGTGT CCTAGCACTT CACTGTCCAG GCTGCAGCAG GGTTTCTATG GAGACCACGC ACTTCTCATC TGAGCTGTGG TTAGTCCAGT TGGTCCA

- \* MITOCHONDRIAL START SITE
- •\$ CYTOSOLIC START SITE
- •OVERLINED 5'ORF
- •PRIMER SEQUENCES ARE UNDERLINED

FIG. 12A 10/17 MSKNSGGYTYTETSVLFFHFKVPKDSKSKMAALKDQLIVNLLKEEQVPQ
NKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKGEMMDLQHGS
LFLKTPKIVSSKDYSVTANSKLVIITAGARQQEGESRLNLVQRNVNIFK
FIIPNVVKYSPQCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLDS
ARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGVNVAGVSLKSLNP
QLGTDADKEQWKDVHKQVVDSAYEVIKLKGYTSWAIGLSVADLAESIMK
NLRRVHPISTMIKGLYGIKEDVFLSVPCILGQNGISDVVKVTLTPDEEA
RLKKSADTLWGIQKELQF

## FIG. 12B

GAGCAACTTGCCGCTCTACTTGCTGTAGGGCTCTGGGTGATGGGAGAAGAGCGGGAG GGCAGCTTTCTAACCATATAAGAGGAGATACCATCCCCTTTTGGTTCATCAAG ATGA GTAAGTCCTCAGGCGGCTACACGTACACGGAGACCTCGGTATTATTTTTCCATTTCA AGGTCTCAAAAGATTCAAAGTCCAAGATGGCAACCCTCAAGGACCAGCTGATTGTGA ATCTTCTTAAGGAAGAGCAGGCTCCCCAGAACAAGATTACAGTTGTTGGGGTTGGTG CTGTTGGCATGGCTTGTGCCATCAGTATCTTAATGAAGGACTTGGCGGATGAGCTTG CCCTTGTTGACGTCATGGAAGACAAACTCAAGGGCGAGATGATGGATCTCCAGCATG GCAGCCTCTTCCTTAAAACACCAAAAATTGTCTCCAGCAAAGACTACTGTGTAACTG CGAACTCCAAGCTGGTCATTATCACCGCGGGGGCCCGTCAGCAAGAGGGGGAGAGCC GGCTCAACCTGGTCCAGCGAAACGTGAACATCTTCAAGTTCATCATTCCCAACATTG TCAAGTACAGTCCACACTGCAAGCTGCTGATCGTCTCCAATCCAGTGGATATCTTGA CCTACGTGGCTTGGAAAATCAGTGGCTTTCCCAAAAACCGAGTAATTGGAAGTGGTT GCAATCTGGATTCAGCGCGGTTCCGTTACCTGATGGGAGAGAGGCTGGGGGTTCACG CGCTGAGCTGTCACGGCTGGGTCCTGGGAGAACATGGCGACTCCAGTGTGCCTGTGT GGAGTGGTGAATGTTGCCGGCGTCTCCCTGAAGTCTCTTAACCCAGAACTGGGCA  ${\tt CTGACGCAGACAAGGAGCAGTGGAAGGAGGTTCACAAGCAGGTGGTGGACAGTGCCT}$ ACGAGGTGATCAAGCTGAAAGGTTACACATCCTGGGCCATTGGCCTCTCTGTGGCAG ACTTGGCTGAGAGCATAATGAAGAACCTTAGGCGGGTGCATCCCATTTCCACCATGA TTAAGGGTCTCTATGGAATCAATGAGGATGTCTTCCTCAGTGTCCCATGTATCCTGG GACAAAATGGAATCTCGGATGTTGTGAAGGTGACACTGACTCCTGAGGAAGAGGCCC GCCTGAAGAAGAGCGCAGACACCCTCTGGGGAATCCAGAAGGAGCTGCAGTTCTAAA GTCTTCCCCGTGTCCTAGCACTTCACTGTCCAGGCTGCAGCAGGGCTTCTAGGCAGA CCACACCCTTCTCGTCTGAGCTGTGGTTAGTACAGTGGTGTTGAGATGGTGTGGGGA AACATCTCACTCCCCACAGCTCTGCCCTGCTGCCAAGTGGTACTTGTGTAGTGGTGA CCTGGTTAGTGTGACAGTCCCACTGTCTCTGAGACACACTGCCAACTGCAGGCTTCG ATTACCCCTGTGAGCCTGCTGCATTGCTGCCCTGCACCAAACAGCCTAGGCCGACGA GTTCCCAGTTAAGTCGTATAACCTGGCTCCAGTGTGTACGTCCATGATGCATATCTT GTGCATAAATGTTGTACAGGATATTTTATATATATATGTGTCTGTAGTGTGCATTG TCATGCCAAATAAAACCTTGAACAGTG

FIG. 12C

MSKSSGGYTYTETSVLFFHFKVSKDSKSKMATLKDQLIVNLLKEEQAPQ
NKITVVGVGAVGMACAISILMKDLADELALVDVMEDKLKGEMMDLQHGS
LFLKTPKIVSSKDYCVTANSKLVIITAGARQQEGESRLNLVQRNVNIFK
FIIPNIVKYSPHCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGCNLDS
ARFRYLMGERLGVHALSCHGWVLGEHGDSSVPVWSGVNVAGVSLKSLNP
ELGTDADKEQWKEVHKQVVDSAYEVIKLKGYTSWAIGLSVADLAESIMK
NLRRVHPISTMIKGLYGINEDVFLSVPCILGQNGISDVVKVTLTPEEEA
RLKKSADTLWGIQKELQF

## FIG. 12D

CTCTGGTGTTTACTTGAGAAGCCCTGGCTGTGTCCTTGCTGTAGGAGCCGGAGTAG CTCAGAGTGATCTTGTCTGAGGAAAGGCCAGCCCCACTTGGTTAATAAACCGCGAT GGGTGAACCCTCAGGAGGCTATACTTACACCCAAACGTCGATATTCCTTTTCCACG CTAAGATTCCTTTTGGTTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATT TATAATCTTCTAAAGGAAGAACAGACCCCCCAGAATAAGATTACAGTTGTTGGGGT TGGTGCTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGACTTGGCAGATG AACTTGCTCTTGTTGATGTCATCGAAGACAAATTGAAGGGAGAGATGATGGATCTC CAACATGGCAGCCTTTTCCTTAGAACACCAAAGATTGTCTCTGGCAAAGACTATAA TGTAACTGCAAACTCCAAGCTGGTCATTATCACGGCTGGGGCACGTCAGCAAGAGG GAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATATTTAAATTCATCATT CCTAATGTTGTAAAATACAGCCCGAACTGCAAGTTGCTTATTGTTTCAAATCCAGT GGATATCTTGACCTACGTGGCTTGGAAGATAAGTGGTTTTCCCAAAAACCGTGTTA TTGGAAGTGGTTGCAATCTGGATTCAGCCCGATTCCGTTACCTGATGGGGGAAAGG CTGGGAGTTCACCCATTAAGCTGTCATGGGTGGGTCCTTGGGGAACATGGAGATTC  ${\tt CAGTGTGCCTGTATGGAGTGGAATGATGTTGCTGGTGTCTCTCTGAAGACTCTGC}$ ACCCAGATTTAGGGACTGATAAAGATAAGGAACAGTGGAAAGAGGTTCACAAGCAG GTGGTTGAGAGTGCTTATGAGGTGATCAAACTCAAAGGCTACACATCCTGGGCTAT TGGACTCTCTGTAGCAGATTTGGCAGAGAGTATAATGAAGAATCTTAGGCGGGTGC ACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCTTCCTT AGTGTTCCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCT GACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGTGCAGATACACTTTGGGGGATCC AAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATATCATTTCACTGTCTAGGCT ACAACAGGATTCTAGGTGGAGGTTGTGCATGTTGTCCTTTTTATCTGATCTGTGAT TAAAGCAGTAATATTTTAAGATGGACTGGGAAAAACATCAACTCCTGAAGTTAGAA ATAAGAATGGTTTGTAAAATCCACAGCTATATCCTGATGCTGGATGGTATTAATCT TGTGTAGTCTTCAACTGGTTAGTGTGAAATAGTTCTGCCACCTCTGACGCACCACT GCCAATGCTGTACGTACTGCATTTGCCCCTTGAGCCAGGTGGATGTTTACCGTGTG TTATATAACTTCCTGGCTCCTTCACTGAACATGCCTAGTCCAACATTTTTTCCCAG TGAGTCACATCCTGGGATCCAGTGTATAAATCCAATATCATGTCTTGTGCATAATT CTTCCAAAGGATCTTATTTTGTGAACTATATCAGTAGTGTACATTACCATATAATG TAAAAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTTATACCAACTAA AACCCCCAATAAACCTTGAACAGTG

FIG. 12E

MGEPSGGYTYTOTSIFLFHAKIPFGSKSNMATLKDQLIYNLLKEEQTP QNKITVVGVGAVGMACAISILMKDLADELALVDVIEDKLKGEMMDLQH GSLFLRTPKIVSGKDYNVTANSKLVIITAGARQQEGESRLNLVQRNVN IFKFIIPNVVKYSPNCKLLIVSNPVDILTYVAWKISGFPKNRVIGSGC NLDSARFRYLMGERLGVHPLSCHGWVLGEHGDSSVPVWSGMNVAGVSL KTLHPDLGTDKDKEQWKEVHKQVVESAYEVIKLKGYTSWAIGLSVADL AESIMKNLRRVHPVSTMIKGLYGIKDDVFLSVPCILGQNGISDLVKVT LTSEEEARLKKSADTLWGIQKELOF

## FIG. 12F

CLUSTALW (V1.4) MULTIPLE SEQUENCE ALIGNMENT 3 SEQUENCES ALIGNED

ALIGNMENT SCORE = 26102 GAPS INSERTED = 78 CONSERVED IDENTITIES = 1013

PAIRWISE ALIGNMENT MODE: SLOW PAIRWISE ALIGNMENT PARAMETERS: OPEN GAP PENALTY = 10.0

EXTEND GAP PENALTY = 5.0

MULTIPLE ALIGNMENT PARAMETERS: OPEN GAP PENALTY = 0.0 DELAY DIVERGENT = 40% EXTEND GAP PENALTY = 5.0TRANSITIONS: WEIGHTED

PROCESSING TIME: 8.7 SECONDS

-		
RAT	1	CGCTC-TACTTGCTGT-AGGA-CTCTGGGTGATGG 32
HUM	1	CTCTGGTGTTTACT-TGAGAAGCCCTGGCTGTCCTTG 38
MOU	1	GAGCAACTTGGCGCTC-TACTTGCTGT-AGGG-CTCTGGGTGATGG 43
		* * * * * * * * * * * * * * * * * * * *
RAT.	33	GAG-AAGAGCGGGAGGGCAGTTCTTTAACCGTGTAAGAGGAGGACCA 75
HUM	39	CTGTAGGAGCCGGA~-GTAGCTCAGAGTGATCTTGTCTGAGGAAAGGCCA 86
MOU	44	GAG-AAGAGCGGGAGGCAGCTTTCTAACCATATAAGAGGAGATACCA 90
		* * *** * * * * * * * * * * * * * * * *
RAT	80	TCCCT-TTTGGGGTTCATCAAGATGAGTAAGAACTCAGGCGGCTACAC 126
HUM	87	GCCCCACTTGGTTAATAAACCGCGATGGGTGAACCCTCAGGAGGCTATAC 136
MOU	91	TCCCC-TTTTGG-TTCATCAAGATGAGTAAGTCCTCAGGCGGCTACAC 136
		*** ** * * * * *** ** * **** **
RAT	127	ATATACGGAGACCTCAGTATTATTTTTCCATTTCAAGGTCCCAAAAGATT 176
HUM	137	TTACACCCAAACGTCGATATTCCTTTTCCACGCTAAGATTCCTTTTGGTT 186
MOU	137	GTACACGGAGACCTCGGTATTATTTTTCCATTTCAAGGTCTCAAAAGATT 186
		** ** * ** ** *** ***** *** * * * *
RAT	177	CAAAGTCCAAGATGGCAGCCCTCAAGGACCAGCTGATT-GTGAATCTTCT 225
HUM	187	CCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTTAT-AATCTTCT 23
MOU	187	CAAAGTCCAAGATGGCAACCCTCAAGGACCAGCTGATT-GTGAATCTTCT 235
		* ****** ***** * ** **** * ***** * * ****
RAT	226	TAAGGAAGAACAGGTCCCCCAGAACAAGATTACAGTTGTTGGGGTTGGTG 275
HUM	236	AAAGGAAGAACAGACCCCCCAGAATAAGATTACAGTTGTTGGGGTTGGTG 285
MOU	236	TAAGGAAGAGCAGGCTCCCCAGAACAAGATTACAGTTGTTGGGGTTGGTG 285
		****** *** ***** **********
RAT	276	CTGTTGGCATGGCTTGTGCCATCAGTATCTTAATGAAGGACTTGGCTGAT 325
HUM	286	CTGTTGGCATGGCCTGTGCCATCAGTATCTTAATGAAGGACTTGGCAGAT 335
MOU	286	CTGTTGGCATGGCTTGTGCCATCAGTATCTTAATGAAGGACTTGGCGGAT 335
		**********

FIG. 13A 13/17

RAT	326	GAGCTTGCCCTTGTTGATGTCATAGAAGATAAGCTAAAGGGAGAGATGAT	3/5
HUM	336	GAACTTGCTCTTGTTGATGTCATCGAAGACAAATTGAAGGGAGAGATGAT	385
MOU	336	GAGCTTGCCCTTGTTGACGTCATGGAAGACAAACTCAAGGGCGAGATGAT	385
1100	330	** **** ***** ***** **** * * * * * * * *	303
		** **** ***** *****	
RAT	376	GGATCTTCAGCATGGCAGCCTTTTCCTTAAGACACCAAAAATTGTCTCCA	425
HUM	386	GGATCTCCAACATGGCAGCCTTTTCCTTAGAACACCAAAGATTGTCTCTG	435
		GGATCTCCAGCATGGCAGCCTCTTCCTTAAAACACCCAAAAATTGTCTCCA	
MOU	386		435
		***** ** ******* ***** ****** *****	
RAT	426	GCAAAGATTATAGTGTGACTGCAAACTCCAAGCTGGTCATTATCACCGCG	475
HUM	436	GCAAAGACTATAATGTAACTGCAAACTCCAAGCTGGTCATTATCACGGCT	485
MOU	136		485
1400	430		403
		****** **	
RAT	476	GGGGCCCGTCAGCAAGAGGGAGAGAGCCGGCTCAATTTGGTCCAGCGAAA	525
HUM	486	GGGGCACGTCAGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAA	535
MOU	486	GGGGCCCGTCAGCAAGAGGGGGGAGAGCCGGCTCAACCTGGTCCAGCGAAA	535
	100	**** ******** ** *** ** ** ** ** ** **	-
RAT	526	CGTGAACATCTTCAAGTTCATCATTCCAAATGTTGTGAAATACAGTCCAC	575
HUM	536	CGTGAACATATTTAAATTCATCATTCCTAATGTTGTAAAATACAGCCCGA	585
MOU		CGTGAACATCTTCAAGTTCATCATTCCCAACATTGTCAAGTACAGTCCAC	
1400	220	******* ** ** ** ****** ** *** ** *** **	303
RAT	576	AGTGCAAACTGCTCATCGTCTCAAACCCAGTGGATATCTTGACCTACGTG	625
HUM	586	ACTGCAAGTTGCTTATTGTTTCAAATCCAGTGGATATCTTGACCTACGTG	635
MOU	586		635
1400	300	* **** *** ** ** ** ** ** ************	033
		* * * * * * * * * * * * * * * * * * * *	
RAT	626	GCTTGGAAGATCAGCGGCTTCCCCAAAAACAAAGTTATTGGAAGTGGTTG	675
HUM	636	GCTTGGAAGATAAGTGGTTTTCCCAAAAACCGTGTTATTGGAAGTGGTTG	685
MOU	636		685
1-100	030	****** ** ** ** ** ** ******* ** ******	003
		******* ** ** ** ** ******* ** ** ******	
RAT	676	CAATCTGGATTCGGCTCGGTTCCGTTACCTGATGGGAGAAAGGCTGGGAG	725
HUM	686	CAATCTGGATTCAGCCCGATTCCGTTACCTGATGGGGGAAAGGCTGGGAG	735
MOU	686	CAATCTGGATTCAGCGCGGTTCCGTTACCTGATGGGAGAGAGGCTGGGGG	735
1100	000	******* ** ** ** ******** ** ** ***** *	, , ,
RAT		TTCATCCACTGAGCTGTCACGGGTGGGTCCTGGGAGAGCATGGCGACTCC	
HUM	736	${\tt TTCACCCATTAAGCTGTCATGGGTGGGTCCTTGGGGAACATGGAGATTCC}$	785
MOU	736	TTCACGCGCTGAGCTGTCACGGCTGGGTCCTGGGAGAACATGGCGACTCC	785
		***	
			00-
RAT		AGTGTGCCTGTGTGGAGTGGTGAACGTCGCCGGCGTCTCCCTGAAGTC	
HUM		${\tt AGTGTGCCTGTATGGAGTGGAATGAATGTTGCTGGTGTCTCTCTGAAGAC}$	
MOU	786	AGTGTGCCTGTGTGGAGTGGTGTGAATGTTGCCGGCGTCTCCCTGAAGTC	835

FIG. 13B 14/17

RAT	826	TCTGAACCCGCAGCTGGGCACGGATGCAGACAAGGAGCAGTGGAAGGATG	875
HUM	836	TCTGCACCCAGATTTAGGGACTGATAAAGATAAGGAACAGTGGAAAGAGG	885
MOU	836	TCTTAACCCAGAACTGGGCACTGACGCAGACAAGGAGCAGTGGAAGGAGG	885
		*** **** * * * * * * * * * * * * * * * *	
RAT	876	TGCACAAGCAGGTGGTTGACAGTGCATACGAAGTGATCAAGCTGAAAGGT	925
		TTCACAAGCAGGTGGTTGAGAGTGCTTATGAGGTGATCAAACTCAAAGGC	935
HUM	886		
MOU	886	${\tt TTCACAAGCAGGTGGTGGACAGTGCCTACGAGGTGATCAAGCTGAAAGGT}$	935
		* ******* ** ** ** ** ** ** ** ** ** **	
RAT	926	TACACATCCTGGGCCATTGGCCTCTCCGTGGCAGACTTGGCCGAGAGCAT	975
HUM	936	TACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTTGGCAGAGAGTAT	985
MOU	936	TACACATCCTGGGCCATTGGCCTCTCTGTGGCAGACTTGGCTGAGAGCAT	985
		****** *** *** **** **** ** **** **** ****	
RAT	976	AATGAAGAACCTTAGGCGGGTGCATCCCA - TTTCCACCATGATTAAGGGT	1024
HUM	986		1034
MOU		AATGAAGAACCTTAGGCGGGTGCATCCCA -TTTCCACCATGATTAAGGGT	1034
14100	900	******* ******** *********************	1024
<b>D.S.</b>			2004
RAT	1025	CTCTATGGGATCAAGGAGGATGTCTTCCTCAGCGTCCCATGTATCCTGGG	1074
HUM	1035	CTTTACGGAATAAAGGATGATGTCTTCCTTAGTGTTCCTTGCATTTTGGG	1084
MOU	1035	CTCTATGGAATCAATGAGGATGTCTTCCTCAGTGTCCCATGTATCCTGGG	1084
		** ** ** ** ** ** ** ******* ** ** ** *	
RAT	1075	ACAAAATGGAATCTCAGATGTTGTGAAGGTGACACTGACTCCTGACGAGG	1124
HUM	1085	ACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAG	1134
MOU	1085	ACAAAATGGAATCTCGGATGTTGTGAAGGTGACACTGACTCCTGAGGAAG	1134
		*** ****** ** ******* ** **** *** **	
RAT	1125	AGGCCCGCCTGAAGAAGAGTGCAGATACCCTCTGGGGAATCCAGAAGGAG	1174
HUM	1135	AGGCCCGTTTGAAGAAGAGTGCAGATACACTTTGGGGGATCCAAAAGGAG	1184
MOU	1135	AGGCCCGCCTGAAGAAGAGCGCAGACACCCTCTGGGGAATCCAGAAGGAG	1184
		******	
RAT	1175	CTGCAGTTCTAAAGTCTTCCCAGTGTCCTAGCACTTCACTGTCCAGGCTG	1224
HUM	1185	CTGCAATTTTAAAGTCTTCT-GATGTCATATCATTTCACTGTCTAGGCTA	1233
MOU	1185	CTGCAGTTCTAAAGTCTTCCCCGTGTCCTAGCACTTCACTGTCCAGGCTG	1234
		**** ** ****** ** ** ** ** ****	
RAT	1225	CAGCAGGGTTTCTATGG-AGACCACGCAC-TTC-TCATCTGAG	1264
HUM	1234	CAACAGGATT-CTAGGTGG-AGGTTGTGCATGTTGTCCTTTTTATCTGAT	1281
MOU	1235	CAGCAGGGCTTCTA GGCAGACCACACCC - TT C - TC GTCTGAG	1274
		** *** * *** * * * * * * * * * * * * * *	
ייוי אַ כו	1265	CTGTGGTTAGTCCAGTTG - GTCCAAAG	1290
		CTGTGATTAAAGCAGTAATATTTTAAGATGGACTGGGAAAAACATCAACT	
MON	12/5	CTGTGGTTAGTACAGT-G-GTGTTGAGATGGTGTGGGGAAA-CATCT	T3T8

1291		1290
1332	CCTGAAGTTAGAAATAAGAATGGTTTGTAAAATCCACAGCTATATCCTGA	1381
1319	CACTC	1341
1291		1290
1382	TGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATA	1431
1342	TGCCAAGTGGTACTTGTGTAGTGGTGACCTGGTTAGTGTGACA	1384
1291		1290
1432	$\tt GTTCTGCCACCTCTGACGCACCACTGCCAATGCTGTACGTAC$	1481
1385	GTCCCACTGTCTCTGAGACAC - ACTGCCAA CTGCA - G - GCTTCGATTA	1429
1291		1290
1482	$\tt CCCCTTGAGCCAGGTGGATGTTTACCGTGTGTTATATAACTTCCTGGCTC$	1531
1430	CCCCTG-TG-A-GCC-TGCTGC-A-TTGCTG-C-C	1456
1291		1290
1532	$\tt CTTCACTGAACATGCCTAGTCCAACATTTTTTCCCAGT-GAGTCACATC-$	1579
1457	$\tt CTGCACCAAACA-GCCTAGGCCGACGAGTTCCCAGTTAAGTCGTATAA$	1503
1291		1290
1580	CTGGGATCCAGTGTATAAATCCAATAT - CATGTCTTGTGCATAATTCTTC	1628
1504	CCTGGCTCCAGTGTACGTCCATGATGCATATCTTGTGCATAAATGTTG	1553
1291		1290
1629	CAAAGGATCTTATTT-TGTGAACTATATCAGTAGTGTACATTACCATATA	1677
1554	TACAGGATATTTTATATATTATATGTGTCTGTAGTGTGCATTGCAATATT	1603
1291		1290
1678	ATGTAA-AAAGATCTACATACAAACAATGCAACCAACTATCCAAGTG	
<del>-</del>		
1291	1290	
	1332 1319 1291 1382 1342 1291 1432 1430 1291 1532 1457 1291 1580 1504 1291 1629 1554 1291 1678 1678 1604	1332 CCTGAAGTTAGAAATAAGAATGGTTTGTAAAATCCACAGCTATATCCTGA 1319 CACTCC-CCCACAGCTCTGCCCTGC  1291 1382 TGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGAAATA 1342 TGCCAAGTGGTACTTGTGTAGTGTGACCTGGTTAGTGTGAAATA 1342 GTTCTGCCACCTCTGACGCACCACTGCCAATGCTGACGTACTGCATTG 1385 GTCCCACTGTCTCTGAGACAC-ACTGCCAACTGCA-G-GCTTCGATTA  1291 1482 CCCCTTGAGCCAGGTGGATGTTTACCGTGTGTATATAACTTCCTGGCTC 1430 CCCCTG-TG-A-GCC-TGCTATTGCTG-C-C  1291 1532 CTTCACTGAACATGCCTAGTCCAACATTTTTTCCCAGT-GAGTCACATC- 1457 CTGCACCAAACA-GCCTAGGCCGACGAGTTCCCAGTTAAGTCGTATAA  1291 1580 CTGGGATCCAGTGTATAAATCCAATAT-CATGTCTTGTGCATAAATGTTG 1291 1580 CTGGGATCCAGTGTACAACATATCAATAT-CATGTCTTGTGCATAAATGTTG 1291 1629 CAAAGGATCTTATTT-TGTGAACTATATCAGTAGTGTACATTACCATATA 1554 TACAGGATATTTTATATATATTATATTGTGTCTTGTGCATTACCATATA 15678 ATGTAA-AAAGATCTACATACAAACAATGCAACCAACCAACCAACTATCCAAGTG 1678 ATGTAA-AAAGATCTACATACAAACAATGCAACCAACCAACCAACCAA

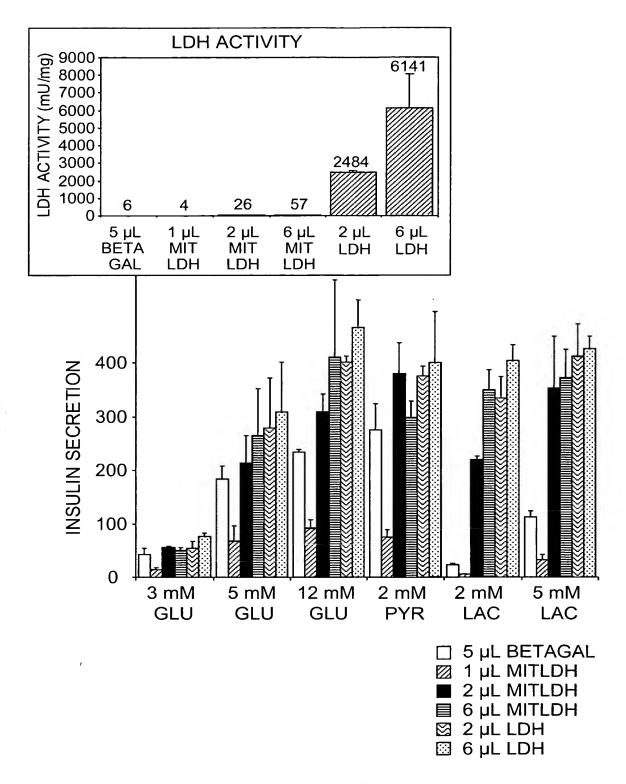


FIG. 14 17/17